STAKHANOVA, M.S.; YEPIKHIN, Yu.A.; KAKAPET'YANTS, M.Kh.

Volume and heat capacity changes in aqueous salt solutions. Part 2. Zhur. fiz. khim. 37 no.11:2570-2573 N'63.

(MIRA 17:2)

l. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

KARAPET YANTS, M.Kh.; CHEN GUANG-YUYE

Methods for calculating the properties of substances in polar coordinates. Part 2. Zhur. fiz. khim. 37 no.11:2577-2580 N'63. (MIRA 17:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva i Sychuan'skiy universitet.

DRAKIN, Sergey Ivanovich; KUDRYAVTSEV, Aleksandr Andreyevich;
SELIVANOVA, Nadezhda Mikhaylovna; MAYYER, Antonina
Ivanovna; SAMPLAVSKAYA, Kira Karlovna; SOLOKHIN, Viktor
Alekseyevich; STAKHANOVA, Mariya Sergeyevna; ALAVERDOV,
Ya.G., red.; FEDOROVA, T.P., red.; KARAPET'YANTS, M.Kh., red.

[Laboratory work in general and inorganic chemistry]
Praktikum po obshchei i neorganicheskoi khimii. Moskva,
Vysshaia shkola, 1964. 268 p. (MIRA 18:4)

VOROB'YEV, Nikolay Konstantinovich; GOL'TSSHMIDT, Vladimir Avgustovich [deceased]; KARAPET'YANTS, Mikhail Khristoforovich; KISELEVA, Vera Leonidovna; KRASNOV, Konstantin Solomonovich; LEVINSKIY, Yu.V., red.

> [Laboratory work in physical chemistry] Praktikum po fizicheskoi khimii. Izd.3., perer. i dop. Moskva, Khimiia, 1964. 383 p. (MIRA 18:4)

ACCESSION NR: AP4015145

s/0064/64/000/002/0130/0133

AUTHORS: Karapet'yants, M. Kh.; Churicheva, L. V.

TITLE: Adapting methods of comprative calculation for estimating certain properties of n-perfluoroalkanes

SOURCE: Khimich. promy\*shi., no. 2, 1964, 130-133

TOPIC TAGS: perfluoroalkane, boiling point, critical temperature, critical pressure, critical volume, normal alkane, saturated vapor pressure, comparative calculation

ABSTRACT: The correlation between the boiling point and saturated vapor pressure, and the critical parameters (pressure, temperature, volume) of n-perfluoroalkanes were approximated using methods I, II, and IV of comparative calculations as described by Karapet-yants (Khim. prom., No. 1, 33 (1961)). Because of their accuracy, data for n-alkanes (which are similar to the n-perfluoroalkanes) were used as the basis for the calculations. The boiling point at pressures ranging from 15 mm. Hg to 20 atm. was calculated for some of

Card 1/3

ACCESSION NR: AP4015145

the C<sub>3</sub> - C<sub>18</sub> n-perfluoroalkanes according to the two equations:

\[ \frac{1}{2} \cdot \frac

ACCESSION NR: AP4015145

 $\cdots \cdot (t_{cr})_{m \in \mathbb{Z}_n P_{tm+2}} = A_i(t_{cr})_{m \in \mathbb{Z}_n H_{tm+2}} + B_i'$  $(P_{ii})_{n \cdot C_n P_{in+1}} = A_1^* (P_{\xi_1})_{n \cdot C_n H_{in+1}} + B_1^*$  $(V_{C_{i'}})_{n:C_{n}P_{in+2}} = A_{i}^{*} (V_{\ell_{i'}})_{n:C_{n}H_{in+2}} + B_{i}^{*}$   $(P_{C_{i'}})_{n:C_{n}P_{\ell n+2}} = A_{i} (I_{C_{i'}})_{n:C_{n}H_{\ell n+2}} + B_{i}$ 

The following coefficients for these equations were calculated from data for n-alkanes: A' = 0.75973, B' = -1.86, A" = 0.69132, B" = -2.725, A"' = 1.6301, B"' = -31.5, A = 0.0803 and B = 1 32.173. The average errors in the estimated critical parameters in the range of 0.20, 0.1 atm. and 4.3 cm<sup>3</sup>/mol. Orig. art. has:

ASSOCIATION: None

SUBMITTED: 00

SUB CODE: PH, MM

DATE ACQ: 12Mar64

ENCL: 00

NR REF SOV: 004

OTHER: 023

Card 3/3

SKLENSKAYA, E.V.; KARAPET YANTS, M. Kh.

Use of the methods of comparative evaluation for determining the values of the instability constants of the halides of Al, Ga, In, Tl. Zhur. neorg. khim. 9 no.11:2564-2568 N \*64 (MIRE 18:1)

"115年在在1966年,在2000年的1966年的1966年的1966年,2000年代

YEPIKHIN, Yu.A.; STAKHANOVA, M.S.; KARAPET YANTS, M.Kh. (Moscow)

Changes in volume and heat capacities in aqueous salt solutions. Part 3. Zhur. fiz. khim. 38 no.3:692-696 Mr 164.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

的过程的国际国际区域中国中国共和国国际公司

KARAPET YANTS, M.Kh.; ZHUKOV, G.V.

Application of the methods of comparative calculation for estimating the properties of substances in corresponding states. Part 1. Zhur, fiz. khim. 38 no.4:1015-1018 Ap '64.

(MIRA 17:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.
Mendeleyeva.

KARAPET 'YANTS, M.Kh.; BOYEV, E.I.

では、1997年の大学の開発を開発を開発を開発を開発して、1997年では、1997年では、1997年の19

Application of the methods of comparative calculation for making the approximations of the type  $f(G_1, G_2, ...)$  meconst more accurate. Part 1: Corrections of Trouton's rule. Zhur, fiz, khim, 38 no.4:1019-1020 Ap \*64. (MTRA 17:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

DRAKIN, S.I.; YERBANOVA, L.N.; KARAPET'YANTS, M.Kh. (Moscow)

Determination of instantaneous heat effects by means of the Mishchenko and Sukhotin modification of the Schottky calorimeter. Zhur. fiz. khim. 38 no.4:1051-1054 Ap \*64. (MIRA 17:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

KARAPET YANTS, M.Kh.; VARNAKOV, S.V.

Application of comparative calculation methods for refining some relationships. Refinement of the Guldber-Gouy rule. Zhur. fiz. khim. 38 no.6:1679-1682 Je 164.

(MIRA 18:3)

1. Moskovskiy khimiko-tekhnologichaskiy institut imeni Mendeleyeva.

KHOLFAHOV, I.F.; KARAPET YANTS, M.Kn.

Basis for comparative calculation methods. Zour.fiz.Wilm. 36 no.8:2093-2094 Ag \$64. (MTHA 1301)

1. Tullskiy politekhnisheskiy Institut i Moskovskiy shirik -tekhnologiche-skiy institut imeni D.T.Mendelsyava.

1.15 0.75.15 P.10.000 EEE GALLANDERSE

STAKHANOVA, H.S. (Moskva); KARALET'YANTS, M.Kh. (Moskva); VASIL'YEV, V.A. (Moskva); YEPIKHIN, Yu.A. (Moskva)

Comparative study of the heat capacities and densities of aqueous electrolyte solutions. Zhur. fiz. khim. 38 no.10:2420-2429 0 '64. (MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mende-leyeva.

YERBANOVA, L.N.; DRAKIN, S.I.; KARAPET YANTS, M.Kh.

Comparative study of the heats of solvation of ions in alcohols. Zhur.fiz.khim. 38 no.11:2670-2674 N \*64.

(MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

L 24786-65 EPF(c)/EPA(6)-2/EWT(m)/EWP(b)/EWP(t) Pr-4/Pt-10 IJP(c) RDW/ACCESSION NR: AP4049619 JW/JD/JG S/0076/64/038/011/2733/2735 34

AUTHOR: Silina, E. Yu.; Karapet'yants, M. Kh.

TITLE: Temperature dependence of the pressure of saturated mercury telluride vapors

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 11, 1964, 2733-2735

TOPIC TAGS: saturated vapor pressure, mercury telluride vapor, vapor pressure temperature dependence 7

ABSTRACT: The pressure of saturated mercury telluride vapors as a function of temperature has been measured by the Knudsen method in the range from 215 to 309 C and by the flux method from 292 to 388 C. The results are described by the equation

 $\log P = -(5640/T) + 9.13 \text{ (mm Hg)}$ 

It is deduced from this equation that  $\Delta H_{subl} = 25.6$  kcal/mole. Orig. art. has: 2 figures and 1 table

Cord 1/2

L 24786-65

ACCESSION NR: AP4049619

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D. I, Mendeleeva (Mcscow Institute of Chemical Technology)

SUBMITTED: 24Dec63

ENCL: 00

SUB CODE: GC, ME

NO REF SOV: 009

OTHER: 003

Cord 2/2

SILINA, E.Yu.; KARAPET'YANTS, M.Kh. (Moscow)

Determination of saturated vapor pressure by the flow method under conditions of significant thermodiffusion effects. Zhur. fiz. khim. 38 no.12:2907-2912 D %64.

(MIRA 18:2)

l. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

KARAPET YANTS, M.Kh.; KHOZHAINOV, Yu.M.

Application of the methods of comparative evaluation for determining the properties of substances occurring in corresponding states. Temperature dependence of saturated vapor pressure. Trudy MKHTI no.44:10-12 '64. (MIRA 18:1)

KARAPET'YANTS, Mikhail Khristoforovich; GERASINOV, Ya.I., otv. red.; MEDVEDEV, V.A., red.

[Methods for the comparative calculation of physicochemical properties] Metody sravnitel'nogo rascheta fiziko-khimicheskikh svoistv. Moskva, Nauka, 1965. 401 p.

(MIRA 18:4)

1. Chlen-korrespondent AN SSSR (for Gerasimov).

KARAPET'YANTS, M.Kh.; FINYAKINA, V.N.

Relation between heat and temperature of reaction in the series of similar compounds. Dissociation of carbonates. Izv.vys.ucheb. zav.; khim.i khim.tekh. 8 no.4:539-542 165.

(MIRA 18:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva, kafedra obshchey i neorganicheskoy khimii i kafedra tekhnologii elektrovakuumnykh proizvodstv.

数数数据数据 "你可以说到这种的心理,我们也不是有一种,我们就是这些的人,我们就是我们的人,我们也不是一种,我们也不是一种,我们就是这种的人,我们就是我们的人,

Pr-4/Ps-4 IJP(c) JW/ EPF(c)/EWG(j)/EWT(m)/EWP(b)/EWP(t) JD/JG UR/0078/65/010/007/1534/1540 AP5018244 ACCESSION NR: 541.44 AUTHOR: Karapet'yants, M. Kh. Comparative calculation of certain properties of hydrides TITLE: SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 7, 1965, 1534-1540 thermodynamic property, physicochemical property, hydride, rare TOPIC TAGS: ABSTRACT: The article shows the wide applicability of methods of comparative calculation to various macro- and microproperties of hydrides. The treatment is confined to solid and chiefly saltlike hydrides, for which experimental data are scarce. Of the six existing methods, three are illustrated. Approximate values were found for the following physical properties: density of beryllium and magnesium hydride, standard entropy of cesium hydride and borohydride, lattice constants of neodymium, praseodymium, cerium, and lathanum hydride, lattice energy of rubidium and cesium deuteride, heat capacity of silver hydrofluoride, standard heat of formation of ammonium and sodium hydrofluoride, and standard

L 62590-65 ACCESSION NR: AP5018244
free energy of formation of lanthanum, thulium, neodymium and yttrium hydride.
Orig. art. has: 11 figures and 13 tables.
ASSOCIATION: None
SUMILITED: Olfeb64 ENCL: 00 SUB CODE: IC
no her sov: 009 Other: 023
Card 2/2

MEDVEDEV, V.A.; YUNGMAN, V.S.; VOROB'YEV, A.F.; GURVICH, L.V.;

BERCMAN, G.A.; REZNITSKIY, L.A.; KOLESOV, V.P.;

GAL'CHENKO, G.L.; KHODEYEV, Yu.S.; KHACHKURUZOV, G.A.;

SOKOLOV, V.B.; GOROKHOV, L.N.; MONAYENKOVA, A.S.;

KOMAROVA, A.F.; VEYTS, I.V.; YURKOV, G.N.; MALENKOV, G.G.;

SMIRNOVA, N.L.; GLUSHKO, V.P., akademik, otv. red.;

MIKHAYLOV, V.V., red.; KARAPET'YANTS, M.Kh., red.

[Thermal constants of substances; reference book in ten numbers] Termicheskie konstanty veshchestva; spravochnik v desiati vypuskakh. Moskva, No.1. 1965. 144 p. (MIRA 18:7)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii.

KARAPET YANTS, M.Kh.; SKIENSKAYA, E.V.

Methods of comparative evaluation for determining the properties of complex compounds. Zhur. fiz. khim. 38 nc.5:1312-1316 My 164. (MIRA 18:12)

MEMBERSHARE SHARE SHAREST AND

1. Khimiko-tekhnologicheskiy institut imeni Mendeleyevn. Submitted June 18, 1963.

SILINA, E.Yu.; KARAPET'YANTS, M.Kh.

Temperature dependence of the saturated vapor pressure of mercury telluride. Zhur.fiz.khim. 38 no.11:2733-2735 N 164. (MIRA 18:2)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

BAZLOVA, I.V.; STAKHANOVA, M.S.; KARAFET'YANTS, M.Kh.; VLASENKO, K.K.

Heats of dissolution of sodium and potassium chleride mixtures in aqueous solutions. Zhur. fiz. khim. 39 no.5:1245-1248 My '65. (MIRA 18:8)

1. Moskovskiy ordena Lenina khimiko-tekhnicheskiy institut im. D.I. Mendeleyeva.

ANDREYLIA, L.L.; KARAPETTYANTE, M. Su.

Heat of formation of bismath exyselenite, Zhur, fiz, Rhim, 39 nc,30:2410-2412 0 '65. (MIRA 18:12)

1. Moskovskiy khimiko-tskhmologicheskiy institut imeni Mendelayava. Submitted June 16, 1964.

YERBANOW, L.N.; KARAPUTYANTS, M.Kh.; DRAKIN, S.I.

work 2. Zeur.fiz.khim. 39 no.11:2748-2752 N '65.

(MIRA 18:12)

1. Meskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

ACC NR: AR6033763 SOURCE CODE: UR/0058/66/000/007/A012/A012

AUTHOR: Bazlova, I. V.; Stakhanova, M. S.; Gadzhiyev, S. N.; Karapet'yants, M. Kh.

AVIG AMIG

TITLE: Procedure of measuring small heat effects with the use of a thermistor

SOURCE: Ref. zh. Fizika, Abs. 7A112

REF SOURCE: Tr. Mosk. khim.-tekhnol. in-ta im. D. I. Mendeleyeva, vyp, 49, 1965, 32-34

TOPIC TAGS: heat effect, thermistor, measurement, aqueous solution, lithium chloride, sodium chloride/KMT-1 thermistor

ABSTRACT: A brief summary describing the experimental use of the KMT-1 type thermistor in calorimetry is given. The sensitivity of the circuit used by the authors amounted to 0.0003C. The heats of mixing have been measured for aqueous solutions of lithium and sodium chlorides. [Translation of abstract]

SUB CODE: 20/

Card 1/1

KARAPET'YANTS, M. L.

Poluboyarinov, D. N., <u>Karapet'yants, M. L.</u> and Fogel'zang, M. P. - "The investigation of semi-acid clays," Trudy Mosk. khim.-tekhnol. in-ta im. Mendeleyeva, Issue 15, 1949, p. 106-25, - Bibliog: 6 items

SO: U-5240, 17, Dec. 53, (Letopis Zhurnal 'nykh Statey, No. 25, 1949).

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5 的。 是我们就是我们就是我们就不是我们的,我们就是我们的人们,我们就是这个人的人们就是这个人,我们就是我们是我们的,我们是我们就是我们就是我们的人们,不是不是什么

KARAPET YANTS, M. L.

Poluboyarinov, D. N., Karapet'yants, M. L. and Fogel'zang, M. R. - "The manufacture of siphon wares from refractory semi-acid clays," Trudy Mosk, khim.-tekhnol. in-ta im. Mendeleyeva, Issue 15, 1949, p. 126-36, - Bibliog: 9 items

SO: U-5240, 17, Dec. 53, (Letopis "Zhurnal 'nykh Statey, No. 25, 1949).

CIA-RDP86-00513R000720610019-5" APPROVED FOR RELEASE: 06/13/2000

L 03017-67 EWI(d) [JP(c) ACC NR. AP6028217

SOURCE CODE: UR/0199/66/007/003/0531/0545

AUTHOR: Dybin, V. B.; Karapetyants, N. K.

ORG: none

TITLE: Convolution type integral equations in a class of generalized functions

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 3, 1966, 531-545

TOPIC TAGS: integral equation, boundary value problem, partial differential equation

ABSTRACT: A general method is proposed for the solution of the Wiener-Hopf equation  $\lambda/(x) + \frac{1}{\sqrt{2\pi}} \int_{0}^{\infty} k(x-t)/(t) dt = g(x), \quad x > 0,$  and its generalized equations

$$\lambda_{i}f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_{i}(x-t)f(t)dt = g(x), \quad x > 0,$$

$$\lambda_2 f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_2(x-t) f(t) dt = g(x), \quad x < 0,$$

Card 1/2

UDC: 517.948.32/33

L 03017-67 ACC NR: AP6028217

in two classes of slowly increasing generalized functions of finite order. A special case of these classes is given by spaces of functions of form  $(x+i)^k f(x)$ , where k is a positive integer and f(x) is either a bounded or a square-summable function. The method for Riemann's problem is used, in which the Fourier transformation figures. To illustrate the application of the method, two examples are presented of solutions of the Wiener-Hopf problem. Orig. art. has: 62 formulas.

SUB CODE: 12/ SUBM DATE: 17May65/ ORIG REF: 017/ OTH REF: 001

Card 2/2 egh

DOBRYNIN, V.N.; GUREVICH, A.I.; KARAPETYSN, M.G.; KOLOSOV, M.N.; SHEMYAKIN, M.M.

Absolute configuration of tetracycline antibiotics. Izv.AN SSSR.Otd. (MIRA 15:10)

 Institut khimii prirodnykh soyedineniy AN SSSR. (Tetracycline) (Antibiotics)

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5

KARAPINA, T.N.

Syphilitic psychoses as shown by data in psychiatric hcspitals of the White Russian S.S.R. Zdrav. Belor. 5 no.9:58-59 S '59. (MIRA 12:12)

经产品的经验的 电影影声传播 医神经神经的现代 经营产的 经证金额经证

1. Iz psikhiatricheskogo otdeleniya 2-y Minskoy klinicheskoy bol'nitsy (glavnyy vrach B.V. Drivotinov, nauchnyy rukovoditel' - zavednyushchiy kafedroy psikhiatrii Minskogo meditsinskogo instituta prof. M.A. Chalisov).

(PSYCHOSES) (SYPHILIS)

治疗法院 医水管性 医阴道 有限的 医阴道性阴极性 计多国际 化多种性多种

KARAFET'YANTS, Mikhail Khristoforovich; KARAPET'YANTS, Mariya Laoridovna

[Tables of some thermodynamic properties of various substances] Tablitsy nekotorykh termodinamicheskikh svoistv razlichnykh veshchestv. Moskva, 1961. 163 p. (Moscow. Khimiko-tekhnologicheskii institut. Trudy, no.34).

(Organic compounds—Thermal properties)

CHEPIK, P.D., dotsent; KARAPINA, T.N.

Disability evaluation in cases with late results of brain injury.

Zdrav.Belor. 5 no.1:50-51 Ja '60. (MIRA 13:5)

1. Po materialam psikhonervologicheskoy Vrachebno-trudovoy ekspertisy gor. Minska. (DISABILITY EVALUATION) (BRAIM--WOUNDS AND INJURIES)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

495 GEOLOGICA THE THE SERVICE SERVICE

YELISEYEV, M.Ya., inzhener; YERESENKOV, N.I., kandidat tekhnicheskikh nauk; IL'IN, V.G., dotsent; KARAPISHCHENKO, N.I., inzhener; OYODOV, V.S., professor, doktor tekhnicheskikh nauk; m.STYAPIN, M.T., inzhener; RYABYSHEV, M.G., redaktor; PEVZNER, V.I., tekhnicheskiy redaktor

[Water supply for livestock on ranges] Vodosnabzhenie otgonnogo zhivotnovodstva. Pod red. V.S.Ovodova. Moskva, Gos. izd-vo sel'khoz. lit-ry. 1957. 243 p. (MLRA 10:8) (Stock and stockbreeding) (Water supply, Rural)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

## KARAPUKHIN, V.I., kand. med. nauk

Alloplasty of the diaphragm and a defect in the chest cavity.

Vest.khir. no.6:108-109 161. (MIRA 15:1)

新的**的2022**全年的2020年中的

1. Iz 4-y kafedry khirurgii (zav. - prof. V.I. Kazanskiy) TSentral'nogo instituta usovershenstvovaniya vrathey na baze TSentral'noy
klinicheskoy bol'nitsy Ministerstva putey soobshcheniya (nach. V.N. Zakharchenko).

(LUNG-DISEASES) (DIAPHRAGM-SURGERY)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5

KHRAPYSL, V.V.

USSR/Thermodynamics, Thermochemistry. Equilibria. Physico-Chemical B-8

Analysis. Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26161

: D.P. Semchenko., V.V. Karapysh Author

: Novocherkassk Polytechnical Institute : Solubility of Chlorine in Perchloric Acid Tnst Title

Orig Pub : Nauch. tr. Movocherkas. politekhn. in-ta, 1956, 34, (48).

Abstract : The solubility of chlorine (I) in aqueous solutions of  $\mathrm{HClO}_{l_{\downarrow}}$ (II) in the concentration range of II up to 50% by weight

at 25° was studied in connection with the investigation of the anode oxidation of the dissolved chlorine. The solubility of I in 50% solution of II was measured in the range from 0 to 500. The results of the study are shown graphically. It was found that the solubility of I drops sharply with the rise of the II content in the zone of low concentrations of the latter (up to 5% by weight); further drop

: 1/2 Card

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5

USSR/Thermodynamics, Thermochemistry. Equilibria. Physico-Chemical B-8
Analysis. Phase Transitions

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26161

of I concentration with the rise of the II content proceeds more slowly following a linear law. Within the range of II concentrations from 5 to 50% by weight, the amount of dissolved I per 1,000 g of water containing in the acid remains practically without change and is equal to 0.065 mols in the average. The hydrolysis degrees of I were computed using the experimental data and taking into consideration the dissociation and activity grades of II.

Card : 2/2

# KARAS, Allaga, RURALURI, Wit

Sargical treatment of pulmonary tuberculosis in Poland in 1948-1963. Gruzlica 33 no.5:369-379 My 165.

1. Z Kliniki Chirurgii Klatki Piersiowej Studium Doskonalenia Lekarzy w Zakopanem (Kierownik: prof. dr. W. Rzepecki).

MAPALKOV, A.V.; KARAS', A.Ya.

Eliminating conditioned pathological bonds in experimental hypertensive conditiones [with summary in English]. Zhur.vys.nerv. deiat. 7 no.3:402-409 My-Je '57. (MIRA 10:10)

1. Kafedra fiziologii zhivotnykh Moskovskogo gosudarstvennogo universiteta.

(HYPERTENSION, experimental,
elimination of conditioned pathol. bonds in dogs (Rus))
(REFLEX, CONDITIONED,
elimination of conditioned pathol. bonds in exper.
hypertension (Rus))

#### KARAS', A. Ya.

Some characteristics of motor conditioned food reflexes to a chain of stimuli: in the green crab (Carcinus maenas). Nauch. dokl. vys. shkoly; nauki no.2:83-87 162. (MIRA 15:5)

1. Rekomendovana kafedroy fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova. (CONDITIONED RESPONSE) (NERVOUS SYSTEM—CRUSTACEA)

#### KARASI, A.Ya.

New data on conditioned inhibition in the green crab Carcinus meanas. Nauch.dokl.vys.shkoly; biol.nauki no.2:87-93 '63. (MIRA 16:4)

1. Rekomendovana kafedroy fiziologii vysshey nervnoy deyatel!nosti Moskovskogo gosudarstvennogo universiteta im. M.V. Lomonosova.

(CONDITIONED RESPONSE)

(CRABS)

CIA-RDP86-00513R000720610019-5" APPROVED FOR RELEASE: 06/13/2000

KARAS', A.Ya.

Conditioned food reflexes from the visual, tactile and static receptors of the Black Sea crab Carcinus maenas. Zhur. vys. nerv. deiat. 12 no.4:748-756 Jl-Ag \*62.

(MIRA 17:11)

1. Chair of Physiology of Higher Nervous Activity, Lomonosov University, Moscow.

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KARAS, A.; Preisler, V.; Radl, Z.
"Improving the quality of Czechoslovak cap-type insulators."
ENERGETIKA, Praha, Czechoslovakia, Vol. 9, no. 1, March 1959

Monthly List of East European Accessions Index (EEAI), Library of Congress, Vol. 8, no. 8, August 1959

Unclassified

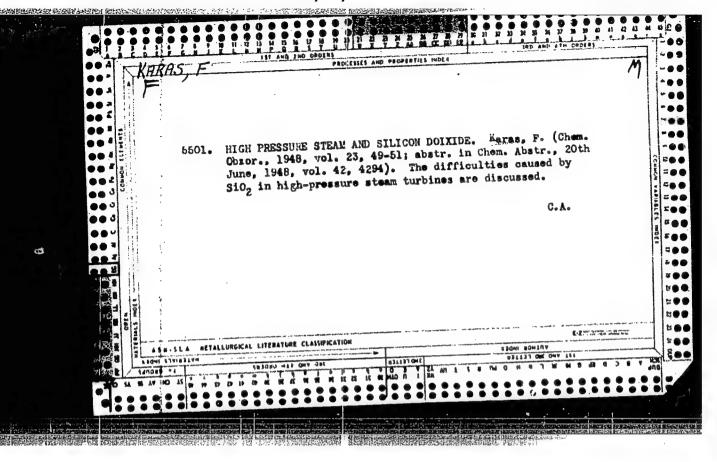
## KARAS, C.; STARKEL, L.

"Extent of Glaciation in central Poland in he scuthern part of the Silesian Upland." p.263

PRZEGIAD GECGRAFICZNY. POLISH GECGRAFEICAL ROWIEW. (Polska Akademia Nauk. Instytut Geografii) Warszawa, Foland. Vol. 30, no. 2, 1958

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KARAS, F.

Preservation of mineral oils in industry in the USSR. p.313. SOVETSKA VEDA: CHEMIE, Prague, Vol. 4, no. 3, 1954.

S): Monthly List of East European Accessions. (EEAL, LC, Vol. 5, No. 6 June 1956, Uncl.

CZECHCSLCVAKIA / Chemical Technology. Chemical Products and Their Applications. Catalysts and Sorbents.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12413.

: Karas, Frantisek; Pelikan, Josef. Author

Not given. Inst

: Obtaining High-Purity Silica Gel. Title

Orig Pub: Chem. prumysl, 1958, 8, No 2, 59-61.

Abstract: A technological scheme is developed for the production of silica sol from Czechoslovakian ionites. It is established that cationite of "FN" quality and anionite of "MFD" quality are completely suitable for the preparation of silicic acid sol from a diluted water glass, which contains less than 3% SiO2, with the use of cationite "FN" in H plusform, and less than 5% with the use of the same

Card 1/2

28

GZECHOSLOVAKIA / Chemical Technology. Chemical Products H and Their Applications. Catalysts and Sorbents.

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12413.

Abstract: cationite in NH<sub>4</sub> plus-form. Silica gel prepared from this sol will be used in chromatography. -- I. Yelinek.

Card 2/2

KARAS, F., inz., dr.

Chemical cleaning of boilers. Energetika Cz 12 no.2:85-86 F '62.

1. Vysoka skola chemickotechnologicka, Praha.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

STANEK, Miroslav, inz.; TEYSSLER, Jiri, inz., dr.; FISCHER, Jiri, inz.; SPITALNIK, inz.; STEKL, inz.; NAVRATIL, Miroslav, inz., dr.; IBLER, Jaroslav, inz., dr.; KARAS, Frantisck, prof., inz., dr., ScDr.; CESKA, inz.; HOFFMANN, V., inz.; CHALUPSKY, Josef, inz.; FAPSO, O., inz.; ROCEK, Jaroslav, inz., ScC.; SVEJDA, J., inz.; IENCZ, Imrich, inz.; RAJDA, Frantisck; BALOS, Jaroslav, inz.; MACHA, Jiri, inz.

Third National Conference on the Results of Research and Development of Power Installations. Energetika Cz:Suppl.: Energetika 13 no.6:1-24 '63.

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KARAS, F., prof. inz. DrSc.; ELIASEK, J., doc.inz.; DLUHOS, J., inz.

Volatile substances for alkalization of high-pressure steam conduits in electric power plants. Energetika Cz 14 no.11:566-568 N '64.

1. Chair of Power Engineering of the Higher School of Chemical Technology, Prague (for Karas and Eliasek). 2. Elektrarny OKR, Ostrava (for Dluhos).

SEBESTYEN, Karoly, dr.; MORVAI, Laszlo; RARAS, Gyula; KARAS, Gyulane

Tests on the quantitative appraisal of water prospecting borings. Geofis kosl 13 no.l:123-134 464.

1. Editorial Foard Mamber, "Geofisikai Koslemenyek" (for Sebastyen).

KONETSKIY, N.V.; KOVTUN, V.A.; KARAS'; G.Ye.; BERNSHTEYN, P.B.

的现在分词,但是是我们的一个人的,我们可以不是一个人的,我们可以是一个人的,我们可以不是一个人的,他们就是这种人的,他们也是一个人的,我们也没有一个人的。

Hydraulic press equalizing 1500 tons. Ogneupory 26 no. 2:62-69 161. (MIRA 14:2)

1. Semilukskiy ogneupornyy zavod (for Konetskiy, Kovtun, Karas¹).
2. Vsesoyuznyy institut ogneuporov (for Bernshteyn).
(Hydraulic presses)



MIL'SHENKO, R.S.; KARAS', G.Ye.

Rapid complexometric method of separate determination of Fe<sub>2</sub>O<sub>3</sub> and Al<sub>2</sub>O<sub>3</sub> in refractory materials. Ogneupory 28 no.12: 570 '63. (MIRA 16:12)

1. Semilukskiy ogneupornyy zavod.

ADSTRUCTION DESCRIPTION OF THE PROPERTY OF THE

CIA-RDP86-00513R000720610019-5" APPROVED FOR RELEASE: 06/13/2000

MIL'SHENKO, R.S.; KARAS', G.Ye.

Work carried on by the Central Factory Laboratory. Ogneupory 29 no.2: 92-94 '64. (MIRA 17:1)

1. Semilukskiy ogneupornyy zavod.



KARAS', G.Ye.

Field session of the Section of Refractory Materials. Ogneupory 26 no. 2:96-99 '61. (MIRA 14:2)

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MAKOVKIN, A.V.; KARAS', G.Ye.

Work of the design bureau of the Semiluki Refractories Plant.

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Semilukskiy ogneupornyy zavod.
 (Semiluki—Refractories industry)

MIL'SHENKO, R.S.; KARAS', G.Ye.

Modern methods of testing refractories and their quality control. Ogneupory 27 no.2:94-95 '62. (MIRA 15:3)

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KAZAKEVICH, S.S.; KHOSID, G.M.; MIKHAYLOVA, L.I.; KORTTSKIY, M.V.; MIL'SHERKO, R.S. TIHOFEYEV, A.F.; KARAS', G.Yo.

Burned fireclay blocks for large capacity blast furnace stacks.

Trudy Inst. ognoup. no.34:3-27 '63. (MIRA 17:10)

1. Vsesoyuznyy institut ogneuporov (for Mikhaylova). 2. Semilukskiy ogneupornyy zavod (for Karas!).

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1. Semilukskiy ogneupornyy zavod.

DOLEZALOVA, J. : KARAS, J.

Studies on physiological bases of surgical disease; preliminary communication, Acta, chir. orthop. traum. cech. 19 no.4-8:133-136 1952. (GIML 23:2)

1. Of the Clinic of Orthopedics and Children's Surgery (Head--Prof. J. Zahradnicek, M.D.) of Charles University, Prague and of the Department of Orthopedics and Children's Surgery (Head--Vaclay Tosovsky, M.D.) of State Hospital in Prague II.

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5

KARAS, D.

KARAS, D.

Kurystyna Lubimaienka; an obituary.

P. 3 (Gazeta Obserwatora) Vol. 10, No. 3, July 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5

KARAS, J.

New trends in repairing. p. 510. STROJIREMISEA VYRODA. (Ministeratvo strojirenstvi) Praha. Vol. 3, no. 12, Dec. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 195

### KARAS, Jiri

Vehicle exchange method and calculation of the reserve of individual groups. Siln doprava 12 no. 8:4-5 Ag 164.

1. Development Center of the Automobile Repair Service.

KARAS, Jiri

Development of automobile repair services. Siln doprava 12 no.1:4-6 Ja '64.

1. Vyvojove stredisko automobiloveho opravarenstvi.

KARAS, Jiri

System of fixed prices in repair shops as a way of control. Pod org 17 no. 12: 548-551 D '63.

1. Vyvojove stredisko automobiloveho opravarenstvi.

#### KARAS, Jiri

Three urgent problems of the automobile repair service. Siln doprava ll no.8:4-6 Ag '63.

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KAPAS, Jiri

Two ways for reducing the maintenance and repair costs. Siln doprava 11 no. 12: 2-4 D 163.

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KARAS, .iri

Mechanization of the planning of spare parts in automobile repair shops. Siln doprava 12 no.9:6-7 S '64.

#### KARAS, J.

"The Czech Maresev", P. 9, (TECHNICKE NOVINY, Vol. 2, No. 9, May 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

#### KARAS, Jozef; MATYJASIK, Zygmunt

An attempt at determining the fertilizing value of the sewage sediments of the Ner River in the light of field experiments. Postepy nauk roln 7 no.6:39-49 N-D \*60. (REAI 10:6)

SZYFELBEJN, Edward; KARAS, Josef

The problem of litter shortage on Polish farms. Postepy nauk roln 8 no.1:73-80 61. (EEAI 10:8)

1. Katedra Zoohigieny Szkoly Glownej Gospodarstwa Wiejskiego, Warszawa.
(Litter(Bedding))

KARP IN M.

#### PHASE I BOOK EXPLOITATION SOV/5452

Donskoy, Ya. Ye., G.I. Kardash, and I.P. Lyalyuk, eds.

Mekhanizatsiya i avtomatizatsiya; sbornik statey ob opyte vnedreniya mekhanizatsii i avtomatizatsii na khar'koyskikh mashinostroitel'nykh zavodakh (Mechanization and Automation; Collection of Articles on the Introduction of Mechanization and Automation in Khar'kov Machinery-Manufacturing Plants) [Khar'kov] Khar'kovskoye knizhnoye izd-vo, 1960. 373 p. 3,900 copies printed.

Editorial Board: S.A. Vorob'yev, Candidate of Technical Sciences; Chairman of the Editorial Board: P.I. Zmaga, Engineer; A.A. Kablov, Engineer, V.I. Kuzubov, Engineer, A. Ye. Leonov, Docent, A.I. Tupitsyn, Candidate of Technical Sciences, and S.M. Khmara, Candidate of Technical Sciences; Eds.: Ya. Ye. Donskoy, G.I. Kardash, and I.P. Lyalyuk; Tech. Ed.: M.I. Limanova.

PURPOSE: This collection of articles is intended for technical and scientific personnel, outstanding workers, and shock workers of communist labor.

COVERAGE: The multifaceted experience of Khar'kov enterprises in the mechanization, automation, and improvement of manufacturing processes is generalized.

Card 1/8

Mechanization and Automation (Cont.)

SOV/5452

The development of new machines, instruments, and production methods is considered and attention is given to newly established enterprises, and to the introduction of telemechanics in the Khar'kov gas-system management. By including concrete examples and facts, the authors of the various articles attempt to demonstrate the achievements of the Khar'kov industrial complex in fulfilling the resolutions of the June (1959) and July (1960) Plenums of the Central Committee of the Communist Party of the Soviet Union. No personalities are mentioned. There are no references.

#### TABLE OF CONTENTS:

Titov, V.N. [First Secretary of the Khar'kov Oblast Committee of the Communist Party of the Ukraine]. Increasing the Tempo of Technological Progress by All Possible Means

7

Malyarov, F.M. [Chief Engineer at the zavod imeni Malysheva--Plant imeni Malyshev], and A.I. Isayev [Chief Process Engineer of the plant]. The Mechanization and Automation of Manufacturing Processes

22

Karas', L.M. [Chief Process Engineer of the "Serp i Molot" Plant]. Automatic [Production] Lines

42

Card 2/8

## APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

Seleznev, L.P. [Deputy Chief Engineer of the Khar'kovskiy Traktornyy Zavod -- Khar'kov Tractor Plant imeni Ordzhonikidze], and V.V. Biblik Chief Process Engineer of the plant]. Mechanization and Automation in a Tractor Plant

60

Shubenko-Shubin, L.A. [Corresponding Member of the Academy of Sciences of the UkrSSR, Chief Designer of the Khar'kovskiy turbinnyy zavod -- Khar'kov Turbine Plant]. The Development of Steam-Turbine Building at the Khar'kov Turbine Plant imeni Kirov

79

Berezin, S.I. [Chief Engineer of the Khar'kov Turbine Plant imeni Kirov], and V.A. Noskov [Deputy Chief Process Engineer]. Experience in Mechanization and Automation

101

Naydenov, V.N. [Chief Engineer of the Khar'kovskiy elektromekhanicheskiy zavod -- Khar'kov Electromechanical Plant], and N. Ya. Polisskiy [Deputy Chief Plant Engineer]. Full Mechanization and Automation at the KhEMZ 117

Card 3/8

Mechanization and Automation (Cont.)	SCV/5452
Zel'vyanskiy, F.B., and M.G. Vishnevskiy [Engineers]. Model Shop of the Khar'kovskiy podshipnikovyy zavod (Kharlant)	The Experimental ar'kov Bearing
Stepanov, S.F. [Deputy Chief Engineer of the Khar'kovski Khar'kov Machine-Tool Plant], and I.T. Frantsuzov [Chief Automatic and Semiautomatic Grinding Machines	y stankozavod Pesigner].
Kas'yanov, O.N., S. Ye. Shvartsman, and I.M. Zil'berberg Automatic Unit-Head Machine Tools	[Engineers].
Mangubi, V.A., and V.G. Kovalenko [Engineers]. What is at the "Elektrostanok" Plant	Accomplished
Korkhov, P.K. [Chief Engineer of the KhEIZ]. Automatic Lines for Stamping Stator and Rotor Sheets	[Production]
Zil'ber, A.G. [Chief Process Engineer of the "Svet shakh For Mechanization in Coal Mining	tera <sup>n</sup> Plant].

Card 4/8

## APPROVED TOR RELEASER 106/13/12000 CIA-RDP86-00513R000720610019-5"

zavodKhar'kov Bicycle Plant]. Mechanization and Automation in	
-	207
Yuzefov, V.I. [Chief Engineer of the "Yuzhkabel'" Plant]. Experience in Technological Progress	
	225
Trinchenko, P.S. [Director of the "Krasnyy Oktyabr'" Plant]. We Are	
Vivahamana Baa (m.	232
Kucherov, P.M. [Director of the Khar'kovskiy zavod konditsionerov Khar'kov Conditioner Plant]. New Technology in the Building of	
	239
Belostotskiy, A.P. [Director of the "Porshen!" Plant]. Carburizing	
	251

Card 5/8

Mechanization and Automation (Cent.) 807/545	32
Ulischenko, F.U. [Chief Engineer of the Khar'kovskiy zavod torgovogo mashinostroyeniya Khar'kov Commercial Machine-Building Plant]. The Mechanization and Automation of Labor-Consuming Processes	
	261
Markin, V.D. [Secretary of the Comintern Rayon Committee of the Communist Party of the Ukraine]. The Party Organization in the Struggle for Technological Progress	268
Chervov, V.G. [Director of the Division of Science and Culture of the Oblast Committee of the Communist Party of the Ukraine]. The Scientists of Khar'kov [Their Contributions] to Production	279
Semko, M.F. [Director of the Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina Khar'kov Polytechnical Institute imeni V.I. Lenin; Professor]. Strengthening and Broadening Creative Collaboration Between Scientific and Production Workers	287
Didenko, K.I. [Chief Designer of the Khar'kov Plant KIP]. A New Apparatus for the Automation of Manufacturing Processes	
THE TACESSES	298
Card 6/8	

Mechanization and Automation (Cont.) SOV/5452	
Savchenko, V.A. [Candidate of Technical Sciences], and V.I. Trubilko [Engineer]. Manual and Semiautomatic Electroslag Welding	317
Tsekov, V.I. [Candidate of Technical Sciences], and P.G. Kofman [Engineer] [Institut inzhenerov kommunal'nogo stroitel'stva Institute of Municipal-Construction Engineers]. The Mechanization of Operations in Trolley-Bus Repair	326
Ivaschenko, V.I., I.F. Marov, D.P. Gramotenko, and M.A. Duel' [Engineers]. Technological Progress in the Khar'kov Power System	340
Svet, I. Sh. [Engineer, Tractor Plant imeni S. Ordzhonikidze]. Automating the Pressworking of Parts, With High-Frequency Induction Heating	<b>35</b> 9
Venediktov, N.A. [Chief Engineer for the Upravleniye gazovogo khozyaystva Administration of the Gas Supply Service]. The Application of Telemechanics in the Khar'kov Gas Supply Service	368
Card 7/8	

# APPROVED FOR RELEASE: 06/13/2000 Mechanization and Automation (Cont.)

CIA-RDP86-00513R000720610019-5"

80V/5452

Tumanov, A.G. [Chief of the Administration of the Gas Industry of the Khar'kov Sovnarkhoz]. The Introduction of New Technology

AVAILABLE: Library of Congress (TJ1160.M395)

371

Card 8/8

VK/wrc/mas 8-10-61

POTEYRO, A.D.; KARAS', L.M.; TIMCH'K, A.T.; EPSHTEYN, V.M.

Synthetic diamonds at the "Serp i Molot" Plant in Kharkov.
Mashinostroitel no.10:37-39 0 164. (MIRA 17:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720610019-5"

KAREST, 1.V. inch.

Use of synthetic diamonds in the George Motors (Canto Mashires nicetie no. 5016-20 [147 36]

KARAS', L.M.

Basis for increasing labor productivity. Inform.biul.VDMXH no.3: 6-11 Mr '64. (MIRA 17:3)

1. Glavnyy tekhnolog zavoda Khar'kovskogo motorostroitel'nogo "Serp i molot".

KRIVOKOBYL'SKIY, V.F.; KARAS', L.M.

Mechanization and automation of the manufacture of .30 00 electric motors at the "Serp i Molot" plant. Trakt. i sel'khozmash. 31 [i.e.32] no.11:38-41 N '62. (MIRA 15:12)

VAKHTEL', V.Yu.; BALYUK, B.K.; KARAS', L.M.; PETUSHKOV, G.Ye.; OVCHARENKO, V.P.; GORELYY, A.V.

Hardening of crankshafts by the method of stamping. Trakt. i sel'khozmash. no.11:7-8 N '65. (MIRA 18:12)

5 3830 2209, 1372, 1234

21129 S/190/61/003/004/002/014 B101/B207

AUTHORS:

Card 1/11

11. 2210

Spasskiy, S. S., Karas', L. Ya.

TITLE:

Problem of a quantitative characteristic of the activity of

unsaturated compounds in copolymerization reactions

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 4, 1961, 505-514

TEXT: The authors proceed from the papers of T. Alfrey, C. Price (Ref. 1, see below) in which the copolymerization of unsaturated compounds was characterized by two constants, the activity factor Q and polarity factor e; e denotes the electron density of the double bond. According to these researchers, the following equations hold for the copolymerization constants  $r_1$ ,  $r_2$ :  $r_1 = (Q_1/Q_2) \exp\left[-e_1(e_1 - e_2)\right]$  (1) and  $r_2 = (Q_2/Q_1) \exp\left[-e_2(e_2 - e_1)\right]$  (2). The correction made by L. Wall (Ref. 2, see below) is mentioned, by which the polarity factors  $e_1^*$  and  $e_2^*$  were added, thus considering charge of radicals with unpaired electrons. It was the aim of the present study to express the activity factors by a constant which may be determined independently of the equations (1) and (2). As such the  $\pi$  bond share of the

Problem of and

5/190/61/003/0d/002/014 B101/B207

molecular refraction was chosen, since reactivity increases with increasing polarizability of the  $\pi$  bonds. Q is replaced by the product  $\alpha\beta$ .  $\alpha$  expresses the polarizability of the  $\pi$  bonds characterized by refraction,  $\beta$ , the effects of the monomer structure not considered by a. For the polar factor of the monomer  $\Sigma$  is introduced, for that of the radical, the authors use  $\Sigma^*$ and write down the following equations:

 $\mathbf{r}_1 = (\alpha_1 \beta_1 / \alpha_2 \beta_2) \exp \left[ -\sum_{1}^* (\sum_{1}^* - \sum_{2}^*) \right]$ (5) and

 $r_2 = (\alpha_2 \beta_2 / \alpha_1 \beta_1) \exp \left[ -\sum_2^* (\sum_2 - \sum_1) \right]$ (6). In consideration of the factor  $\Delta \Sigma^*$  of the excess radical charge due to the unpaired electron, and the number  $n_1$ , and  $n_2$  of the conjugate double bonds the following is obtained:

results of the calculation of these factors. It was possible to differentiate between three groups of monomers. 1)  $\beta\sim1$  holds for the monosubstituted ethylene derivatives the double bond of which is conjugated with aromatic or carbonyl bond; 2)  $\beta$ 1 holds for monosubstituted ethylene derivatives the

Card 2/11

2]129 5/190/61/003/004/002/014 B101/B207

Problem of ...

double bond of which is conjugated with ethylene double bond; 3)  $\beta \langle 1$  holds for ethylene derivatives with non-conjugated double bond or for monomers with conjugated double bond, however, with two substituents at the double bond. The low  $\beta$  value is due to steric hindrance. Table 3 compares the product  $\alpha\beta$  with the kinetic constant k of the chain growth and its

activation energy Ech:	Monomer	α•β	(k <sub>ch</sub> ) <sub>60</sub>	E <sub>ch</sub> , kcal/mole
A comparison of the difference between the polarity factor $\Sigma$ of styrene derivatives and	vinyl ace- tate vinyl chlo-	0.23	2040	4.20
Σ with the Hammett constant σ (σ being taken from	*	0.21	12900	3.70
the paper by C. Price, Ref. 17, see below) shows good agreement	acrylate acrylo-	3.69	1260	4.70
(Table 4). Among 100 systems calculated, in 85 the devia-	nitrile methyl	4.25	425	-
tion was less than 10%, in 8 a deviation of 10-15% was	methacrylate methacrylo-	4.90	575	4.70
Card 3/11		8.04	190	6.00

21129 S/190/61/003/004/002/014 B101/B207

Problem of ...

 $\alpha \cdot \beta$   $(k_{ch})_{60}$   $E_{ch}$ , kcal/mole Monomer observed, and, only in three cases is was > 15%. Although styrene 12.56 178 7.25 butadiene 16.63 105 9.30 the method suggested is only isoprene 15.52 50 9.80 an approximation method, the results obtained are better than those of Alfrey and Price. There are 4 tables and 17 references: 9 Soviet-bloc and 8 non-Soviet-bloc. The 4 references to English-language publications read as follows: T. Alfrey, C. Price, J. Polymer Sci., 2, 101, 1947; L. Wall, J. Polymer Sci., 2, 548, 1947; 5) F. Mayo, F. Lewis, C. Walling, J. Amer. Chem. Soc., 70, 1529, 1948, C. Price, J. Polymar Sci., 3, 778, 1948.

ASSOCIATION: Institut khimii Ural'skogo filiala AN SSSR (Institute of

Chemistry of Ural Branch of AS USSR)

SUBMITTED: June 15, 1960

Card 4/11

Problem of ...

S/190/61/003/004/002/014 B101/B207

Table 2. The activity factors  $\alpha$  and  $\beta$ , and the polarity factor  $\sum$  of some monomers. Legend: A) System of monomers; B) product  $\alpha \cdot \beta$  for  $M_4$ ; C) Mean of  $\alpha \cdot \beta$  for  $M_1$ ; D) activity factors for  $M_1$ ; E) polarity factor for  $M_1$ ; F) mean value of  $\sum$  for M<sub>1</sub>; G) references for the experimental data of copolymerization constants: Ref. 6: T. Alfrey, J. Borrer, G. Marc, Sopolimerizatsiya (Copolymerization), Izd. in. lit., 1953; Ref. 7: C. Price, J. Polymer Sci., 16, 577, 1955; Ref. 8: Z. Macháček, Chem. listy, 48, 477, 1954; Ref. 9: B. L. Funt, E. A. Ogrizlo, J. Polymer Sci., 25, 279, 1957; Ref. 11: C. Price, J. Polymer Sci., 11, 575, 1953; Ref. 12: Sudzuki Tateliti, J. Chem. Soc. Japan, Industr. Chem. Sec., 56, 870, 1955; Ref. 13: M. M. Koton, O. K. Surnina, Dokl. AN SSSR, 113, 1063, 1957; 1) acrylonitrile; 2) vinylidene chloride, 3) methyl methacrylate, 4) styrene, 5) p-chloro styrene, 6) m-chloro styrene, 7) p-bromo styrene, 8) m-bromo styrene, 9) p-iodo styrene, 10) α-methyl styrene, 11) p-methyl styrene, 12) p-methoxy styrene, 13) p-nitrostyrene, 14) p-cyanostyrene, 15) p-dimethyl aminostyrene, 16) 2,5-dichloro styrene, 17) 2-vinyl pyridine, 18) 2-vinyl naphthalene, 19) methyl-vinyl ketone, 20) methyl acrylate, 21) butyl acrylate, 22) methyl- $\alpha$ -chloro acrylate, 23) methyl acrylonitrile, Card 5/11

Problem of ...

S/190/61/003/004/002/014 B101/B207

24) butadienc, 25) isoprene, 26) chloroprene, 27) allyl acetate, 28) vinyl acetate, 29) allyl chloride, 30) vinyl chloride; 31) cis-dichloro ethylene, 32) trichloro ethylene, 33) maleic anhydride, 34) diethyl fumarate, 35) diethyl maleinate, 36) β-bromo vinyl-ethyl ether.

,	порых определяни значении в и Σ	фанторов 11 роизведение	Средни» виачения		нторы активности для: М <sub>1</sub>		Среднее значение
<i>M</i> <sub>1</sub>	м,	антивности а.в для_М <sub>в</sub>	а∙β для М₁		ß	полярности У для М <sub>4</sub>	фантора полирвости Σ для М <sub>в</sub>
О Акрилопитрил     О	() Метилметакрилат () Стирол в	4,25	4,25	4,25	1,00	+1,84 +1,50 }	+1,67
<ul><li>(1) Винилиденхлер</li><li>(2) Метилметакрил</li></ul>	ыд Бипилиденхлорид Мотплыстакрилат ФАкрилонитрил Датирон	2,87	2,87	2,87	1,00	+0,90 +1,80 +1,46	-{-1,52
Card 6/11	ит Птирол ФАкриловитрыя Винилиденхлорид	4,90	4,90	4,90	1,00	+1,31 +0.73 +0.52 +0.50	-1-0,58

L 61726-65 EWT(m)/EPF(c)/EMP(j)/EMA(c) Pc-4/Pr-4/Ps-4 RPL WW/RM

ACCESSION HR: AP5013062 UR/0190/65/007/005/0891/0897
678.01:53+678.664

AUTHORS: Karas', L. Ya.; Tager, A. A.

TITLE: The mechanical properties of three-dimensional polyurethanes repared on the basis of polydiethylene-succinato, polydiethyleneadipate, and polydiethylene-sebacate, lst communication in the series "Influence of the chemical nature of the chain and degree of cross-linkage on the properties of polyurethanes"

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 5, 1965, 891-897

TOPIC TAGS: polymer, resim, polyurethane plastic, tensile stress, tensile strength, polyethylene

ABSTRACT: Physical properties of polyurethanes were determined in order to clarify existing discrepancies in the literature regarding the effect of cross-linkage network density on the mechanical and other properties of three-dimensional polyurethanes of different chemical natures. The mechanical properties of polyurethanes prepared on the basis of polyethylene-succinate, polyethylene-adipate and polyethylene-sebacate in the presence of trimethylpropane were studied. The degree of cross-linkage was determined by adjusting the concentration of

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ACCESSION NR: AP5013062

trimethylpropane. The reactions were carried out at 1200. It was found that the mechanical properties of the polyurethane depend on the chemical nature of the polyurethane and the degree of cross-linkage. Increase in the degree of crosslinkage causes a drastic decrease in the strength of the polymer but has little effect on the glass temperature. The tensile strength of polyurethanes when expressed on a function of the degree of cross-linkage has a maximum, the nature and magnitude of which is determined by the ease of crystallization of the polyurethane. Aging increases the tensile strength of polyethylene-sebactte. It is concluded that, since the curves of tensile strength versus degree of crosslinkage intersect for different polyurethanes, the mechanical properties of the latter must be investigated over wide regions of cross-linkage before their suitability for a particular industrial application can be assessed. Zn. D. Timoshenko and R. S. Shcheglova participated in the experimental part of the investigation. Orig. art. has: 2 tables and 6 graphs.

ASSOCIATION: Ural'skiy gosudarstvennyy universitet im. Gor'kogo (Ural State University)

SUBMITTED: 21Jul64

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: DO3

OTHER: 009

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L 18572-66 EWT(m)/EMP(j)/T/ETC(m)-6 WW/JW/JWD/RM

ACC NR: AP6002432 SOURCE CODE: UR/0020/65/165/005/1122/1125

AUTHORS: Tager, A. A.; Karas', L. Ya.

ORG: none

7.14.55

TITLE: Thermodynamics of swelling of three-dimensional polyurethanes

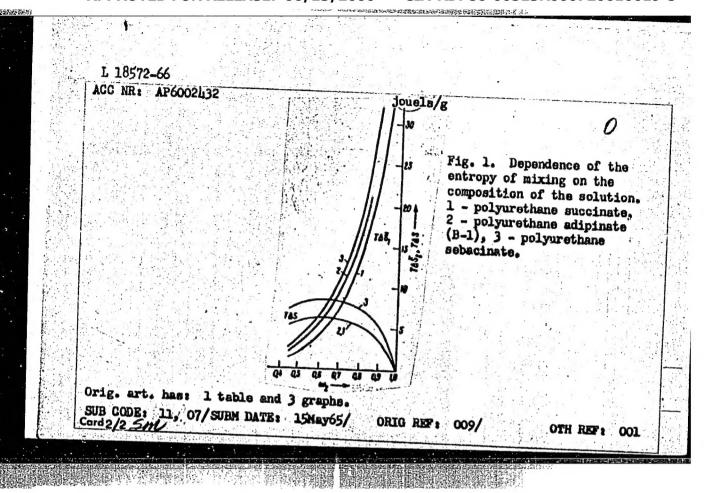
SOURCE: AN SSSR. Doklady, v. 165, no. 5, 1965, 1122-1125

TOPIC TAGS: polymer, polyurethane, thermodynamic analysis, thermodynamic function, thermodynamic property

ABSTRACT: The sorbtion isotherms for the sorbtion of dioxans on a number of polyurethanes and also the entropy and enthalpy of mixing polyurethanes in dioxane solutions were determined. The sorbtion experiments were carried out by the method of A. A. Tager and V. A. Kargin (Koll. zhurn., 10, 455, 1948) and the solution experiments by the method of A. A. Tager (Fiziko-khimiya polimerov, M., 1963. str. 380). The experimental results are presented in graphs and tables (see Fig. 1). It is concluded that the flexibility of the polyurethane chains increases with increase in the number of methyl groups between the complex ester linkages. This paper was presented by Academician V. A. Kargin on 15 May 1965.

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UDG: 678.03:53+678.664



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Nazwy miejscowe typu Fodecra, Zalas w jezyku polskim i w innych jezykach slowianskich. Wroclaw, Zaklad im. Ossolinskich, 1955. 144 C. (polska Akademia Nauk. Komitet Jezykoznawczy. Frace chomastyczne, 1) (Local names of the lodgora, Zalas type in Polish and other Slavic Languages) MIDW Not in DLC

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So: East Europeon Accessions, Vol. 5, May 1956